

Product datasheet for **SC106413**

B3GNT5 (NM_032047) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	B3GNT5 (NM_032047) Human Untagged Clone
Tag:	Tag Free
Symbol:	B3GNT5
Synonyms:	B3GN-T5; beta3Gn-T5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC106413 sequence for NM_032047 edited (data generated by NextGen Sequencing)

```

ATGAGAATGTTGGTTAGTGGCAGAAGAGTCAAAAAATGGCAGTTAATTATTCAGTTATTT
GCTACTTGTTTTTTAGCGAGCCTCATGTTTTTTGGGAACCAATCGATAATCACATTGTG
AGCCATATGAAGTCATATTCTTACAGATACCTCATAAATAGCTATGACTTTGTGAATGAT
ACCCTGTCTCTTAAGCACACCTCAGCGGGGCTCGCTACCAATACTTGATTAACCACAAG
GAAAAGTGTCAAGCTCAAGACGTCCTCCTTTACTGTTTGTA AAAACTGCTCCTGAAAAC
TATGATCGACGTTCCGGAATTAGAAGGACGTGGGGCAATGAAAATTATGTTCGGTCTCAG
CTGAATGCCAACATCAAACTCTGTTTGCCTTAGGAACTCCTAATCCACTGGAGGGAGAA
GAACTACAAAGAAAAGTGGCTTGGGAAGATCAAAGGTACAATGATATAATTCAGCAAGAC
TTTGTGATTCTTCTACAATCTTACTCTGAAATTA CTTATGCAGTTCAGTTGGGCAAT
ACCTATTGTCCACATGCCAAATTTCTTATGACTGCTGATGATGACATATTTATTCACATG
CCAAATCTGATTGAGTACCTTCAAAGTTTAGAACAAATGGTGTTCAAGACTTTTGGATT
GGTCGTGTTTCATCGTGGTGCCCTCCCATTAGAGATAAAAAGCAGCAAACTACTACGTGTC
TATGAAATGTACCAGTGGCCAGCTTACCCTGACTACACAGCCGGAGCTGCCTATGTAATC
TCCGGTGATGTAGCTGCCAAAGTCTATGAGGCATCACAGACACTAAATTC AAGTCTTTAC
ATAGACGATGTGTTTCATGGGCCTCTGTGCCAATAAAAATAGGGATAGTACCGCAGGACCAT
GTGTTTTTTCTGGAGAGGGTAAAACCTTATCATCCCTGCATCTATGAAAAAATGATG
ACATCTCATGGACACTTAGAAGATCTCCAGGACCTTGGGAAGAATGCTACAGATCCTAAA
GTAAAAACCATTTCCAAAGTTTTTTTGGTCAAATATACTGCAGATTAATGAAGATAATT
CTCCTTTGTA AAAATTAGCTATGTGGACACATACCCTTGTAGGGCTGCGTTTATCTAA

```

Clone variation with respect to NM_032047.4



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032047 unedited
 NNNCCCGTTCCGGATTTGTATACGACTACTATAGGCGGCCGGAATTCGCACGAGGCTGG
 GCCGGTGGTTCGCGCGGGAGTTAGTCTGTGGTCAGTTACGTGGTAAAACACGGCTGTGC
 CGCGGCCGCATCTTCCGCGGCCGAGGCCCTCTCTGGGTGGGAGTGTGGCTTCTTTCCG
 GATCGCTAAATGGGAAAAGTTCTGGCCGCTCGGCGGGATACGTCTCCAGGCCACGGATGG
 TTCGTTCTCCGTGCCGCGGCCCGAGCTGGGCTCCCTGGGTCTCCAGCGGGGCTCCCGG
 CATTGGGGGCTGCGGGCCGCGCCCTCCGCCCCGCCCCGCCCCCGCGCCCTCTCGGCC
 GAGCGGCTCGCGTCTCCGGCGCGGGAGGCTCCGAGTCTGCCACTCCGGGCCGAGCGAG
 GTCTCTGGAGGAGAAGAGTGGCGAGGAGTGAGGGCACGCCGGCCCTCGCCCCGCGGGTG
 GCGCCAGGACTTCAGGTGGCATGGAATATTACATGGGAGAGCCGCATGAGGCCGCCAC
 CACGCTTCTGAAGGATGCCCGTGTGGAAGAATTTGACGTGCCAGTGTCTCTGTTCTAC
 AGGGTGTTCATTCTTCCGAATCTCAGAAAAATGGGACTAANAGAACTATTTTGTA
 ATAAGAAGACTTCCATTTTTATGACCAACATGTATTAAGATGGACACCTACTCTACGAA
 ACAGGAAGTTCTATGGTCTCGAAGAAGCCCGTGCCTGTTAAAACTGNATCCTACTAANA
 ACAGACTTGAGTGATATGAAGATGNTGGTTAGTGGCAGAAGAGTCAAAAATGGCAGTTA
 ATTATTCANGTATTTGCTACTTGTTTTTAGCGAGCCTCATGTTTTTTGGGAACCAATC
 GATAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032047 unedited
 NNNNTTACTCTGNNACCGCGCCGATTCTAGNGATCGGTTTTTTTTTTTTTTTTTTTAA
 TTTTTAGTTGTTTATTGAAAATATAGATTTTTTTTAACTCACTAATTATTTGGCCAT
 ACAAGAGCAAAATCAAGTAATACAAATATTTAACATTTTGGTATAAAATTAACAATATG
 GAAAAAAGATGCAAAACCAACCAAAAGGTAAAAAATTTTAAACAATAACTGTGTATAAC
 CATCTTCTATTCAAGTGACCATCCAAGCTGATAGTTTATTTTCCCTTTGTTGACATTTT
 TAAAAAGATAGCCCTACACTGGAGCACCAAAAAGTTTTTCTTCTTTTTTAAAAGGTTG
 GAACCCTTTTATTACAGATACTTCTCAGTACTTTAAGTAAGTGTGATGAAGGAATCA
 TCTAGCAACTTCTTCTTAGAAAAAAGGAAGTGCCTTCATATTTCTTGAATTTAAAC
 TTGTTCCATTCTATTCTAAGCAAAAATAAAAGGACACAGTTCAGAAGAGCTCTTTCAGC
 AAATAAATAATTGTTTCAAAAAGCACTGCTGTAACAAGATCACTTTGATGGCCAGAGA
 CACTTATGTTTTCAACCAATGGCAACCTTAAACACTTCCAAGTATAGATACACAGGGTAT
 ATATGGGCAAAAAGGCATACATCATTAACTCAATCAACTAATAAAAAATTAATTATAAGCTT
 GGTGCTTGGNCAAAATATGCCTTTTGGTCCCTAAGTTTTTTTTTAAATTGGTCAGAAACTTA
 AACTGTAATGATCTAAAAACCTGTATCTACTTTTAAAAGTAACTACACCCTAAAAATGGTT
 GACACTTGTGAGTTTGGCATTAGTTTTAAAATTTTAAATTATCTAAGGATTGTAACAAAG
 CCTAAATTTCAAAAAGAAAAATTTAAATTTTGGGAACCATAAAAA

Restriction Sites:

ECoRI-NOT

ACCN:

NM_032047

Insert Size:

4400 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

Components:

The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_032047.3](#), [NP_114436.1](#)

RefSeq Size: 4127 bp

RefSeq ORF: 1137 bp

Locus ID: 84002

UniProt ID: [Q9BYG0](#)

Cytogenetics: 3q27.1

Domains: Galactosyl_T

Protein Families: Transmembrane

Protein Pathways: Glycosphingolipid biosynthesis - lacto and neolacto series, Metabolic pathways

Gene Summary: This gene encodes a member of the beta-1,3-N-acetylglucosaminyltransferase family. This enzyme is a type II membrane protein. It exhibits strong activity to transfer GlcNAc to glycolipid substrates and is identified as the most likely candidate for lactotriaosylceramide synthase. This enzyme is essential for the expression of Lewis X epitopes on glycolipids. [provided by RefSeq, Jul 2008]